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* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1          Web Page for STN Seminar Schedule - N. America
 NEWS  2  AUG 15  CAOLD to be discontinued on December 31, 2008
 NEWS  3  OCT 07  EPFULL enhanced with full implementation of EPC2000
 NEWS  4  OCT 07  Multiple databases enhanced for more flexible patent
                  number searching
 NEWS  5  OCT 22  Current-awareness alert (SDI) setup and editing
                  enhanced
 NEWS  6  OCT 22  WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT
                  Applications
 NEWS  7  OCT 24  CHEMLIST enhanced with intermediate list of
                  pre-registered REACH substances
 NEWS  8  NOV 21  CAS patent coverage to include exemplified prophetic
                  substances identified in English-, French-, German-,
                  and Japanese-language basic patents from 2004-present
 NEWS  9  NOV 26  MARPAT enhanced with FSORT command
 NEWS 10  NOV 26  MEDLINE year-end processing temporarily halts
                  availability of new fully-indexed citations
 NEWS 11  NOV 26  CHEMSAFE now available on STN Easy
 NEWS 12  NOV 26  Two new SET commands increase convenience of STN
                  searching
 NEWS 13  DEC 01  ChemPort single article sales feature unavailable

 NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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FILE 'HOME' ENTERED AT 14:43:31 ON 12 DEC 2008

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21
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FILE 'REGISTRY' ENTERED AT 14:43:56 ON 12 DEC 2008
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STRUCTURE FILE UPDATES: 11 DEC 2008 HIGHEST RN 1083154-18-0
DICTIONARY FILE UPDATES: 11 DEC 2008 HIGHEST RN 1083154-18-0

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Uploading C:\Program Files\Stnexp\Queries\10528356.str

L1   STRUCTURE UPLOADED

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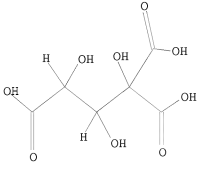
L1 HAS NO ANSWERS
L1   STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
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SAMPLE SCREEN SEARCH COMPLETED -   7 TO ITERATE

100.0% PROCESSED   7 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 7 TO   298
PROJECTED ANSWERS: 0 TO   0

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L2            0 SEA SSS SAM L1

=> s l1 full
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FULL SCREEN SEARCH COMPLETED -      187 TO ITERATE

100.0% PROCESSED      187 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

L3            1 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   178.36     178.57

FILE 'CAPLUS' ENTERED AT 14:44:25 ON 12 DEC 2008
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FILE COVERS 1907 - 12 Dec 2008  VOL 149 ISS 25
FILE LAST UPDATED: 11 Dec 2008  (20081211/ED)

Caplus now includes complete International Patent Classification (IPC)
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=> s l3
L4            1 L3

=> d 14

L4   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2008 ACS on STN
AN   2004:218548  CAPLUS
DN   140:277695
TI   Process for preparation of a polycarboxylic composition comprising an
     electrochemical oxidation stage of a monosaccharide composition
IN   Marsais, Francis; Feasson, Christian; Queguiner, Guy; Ibert, Mathias;
     Comini, Serge; Grossel, Jean Marc
PA   Roquette Freres, Fr.
SO   Fr. Demande, 31 pp.
     CODEN: FRXXBL
DT   Patent
LA   French
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     ---------------     ----   --------    --------------------   --------
```

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PI   FR 2844525          A1    20040319    FR 2002-11546          20020918
     FR 2844525          B1    20050603
     WO 2004027118       A1    20040401    WO 2003-FR2702         20030912
        W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
            GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
            LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
            OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
            TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
            KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
            FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
            BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     AU 2003276334       A1    20040408    AU 2003-276334         20030912
     EP 1540038          A1    20050615    EP 2003-797338         20030912
        R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     US 20050252785      A1    20051117    US 2005-528356         20050318
PRAI FR 2002-11546       A     20020918
     WO 2003-FR2702      W     20030912
RE.CNT  3     THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> file reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 3.61     182.18

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DICTIONARY FILE UPDATES:  11 DEC 2008  HIGHEST RN 1083154-18-0

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http://www.cas.org/support/stngen/stndoc/properties.html

=> E "GLUCARIC ACID"/CN 25
E1            1     GLUCARE N/CN
E2            1     GLUCARE S/CN
E3            1 --> GLUCARIC ACID/CN
E4            1     GLUCARIC ACID 1,4:3,6-DILACTONE/CN
E5            1     GLUCARIC ACID 1,4:6,3-DILACTONE/CN
E6            1     GLUCARIC ACID, Γ-LACTONE, CALCIUM SALT, D-/CN
E7            1     GLUCARIC ACID, 1,4-LACTONE/CN
E8            1     GLUCARIC ACID, 1,4-LACTONE, COMPD. WITH
1,1'-HEXAMETHYLENEBIS(5-(P-CHLOROPHENYL)BIGUANIDE (2:1), D-/CN
```

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E9              1     GLUCARIC ACID, 1,4-LACTONE, D-/CN
E10             1     GLUCARIC ACID, 1,4-LACTONE, D-, COMPD. WITH ETHYLENEDIAMINE/CN
E11             1     GLUCARIC ACID, 1,4-LACTONE, ETHYL ESTER, D-/CN
E12             1     GLUCARIC ACID, 1,4-LACTONE, ETHYL ESTER, L-/CN
E13             1     GLUCARIC ACID, 1,4-LACTONE, ETHYL ESTER, TRIACETATE, D-/CN
E14             1     GLUCARIC ACID, 1,4-LACTONE, ETHYL ESTER, TRIBENZOATE, D-/CN
E15             1     GLUCARIC ACID, 1,4-LACTONE, ETHYL ESTER, TRIBUTYRATE, D-/CN
E16             1     GLUCARIC ACID, 1,4-LACTONE, ETHYL ESTER, TRIHEXANOATE, D-/CN
E17             1     GLUCARIC ACID, 1,4-LACTONE, ETHYL ESTER, TRIMYRISTATE, D-/CN
E18             1     GLUCARIC ACID, 1,4-LACTONE, ETHYL ESTER, TRIPROPIONATE, D-/CN
E19             1     GLUCARIC ACID, 1,4-LACTONE, ETHYL ESTER, TRIS(O-CHLOROBENZOATE),
D-/CN
E20             1     GLUCARIC ACID, 1,4-LACTONE, ETHYL ESTER, TRIS(P-NITROBENZOATE),
D-/CN
E21             1     GLUCARIC ACID, 1,4-LACTONE, METHYL ESTER, D-/CN
E22             1     GLUCARIC ACID, 1,4-LACTONE, METHYL ESTER, L-/CN
E23             1     GLUCARIC ACID, 1,4-LACTONE, METHYL ESTER, TRIACETATE, D-/CN
E24             1     GLUCARIC ACID, 1,4-LACTONE, METHYL ESTER, TRIBUTYRATE, D-/CN
E25             1     GLUCARIC ACID, 1,4-LACTONE, METHYL ESTER, TRIMYRISTATE, D-/CN

=> s e3
L5              1 "GLUCARIC ACID"/CN

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     5.61     187.79

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FILE LAST UPDATED: 11 Dec 2008  (20081211/ED)

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=> s l5
L6            297 L5

=> s l5 and composition
            297 L5
         741261 COMPOSITION
L7           20 L5 AND COMPOSITION
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=> d l7 ibib abs hitstr 1-
YOU HAVE REQUESTED DATA FROM 20 ANSWERS - CONTINUE? Y/(N):y

L7   ANSWER 1 OF 20  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2007:62191  CAPLUS
DOCUMENT NUMBER:          146:149031
TITLE:                    Composition for improving the efficacy and
                          reducing the side effects of omega 3 fatty acids, fish
                          oils for cardiovascular and diabetic treatments
INVENTOR(S):              Hendrix, Curt
PATENT ASSIGNEE(S):       USA
SOURCE:                   U.S. Pat. Appl. Publ., 3pp.
                          CODEN: USXXCO
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     ----------------    ----   --------    ---------------------  --------
     US 20070014866       A1    20070118    US 2006-484230         20060710
PRIORITY APPLN. INFO.:                      US 2005-699669P     P  20050715
AB   The present invention relates to a composition for improving the efficacy and
     reducing the side effects of omega-3 fatty acids and fish oils for
     cardiovascular disease and diabetes treatments.  Synergistic therapeutic
     compns. for reducing triglycerides, lowering LDL and increasing HDL are
     formed by combining either pantethine or CoA, or a combination of
     pantethine and CoA with fish oils.  Either pantethine or CoA, or a
     combination of pantethine and CoA, added to cardiovascular drugs or
     compns. for lowering cholesterol increases the therapeutic effects and
     decreasing the side effects of those drugs or compns.  Either pantethine
     or CoA, or a combination of pantethine and CoA, added to drugs or compns.
     used in the treatment of Type I or Type II diabetes also increases the
     therapeutic effects and decreasing the side effects of those drugs or
     compns.
IT   25525-21-7D, Glucaric acid, salt
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (composition for improving efficacy and reducing side effects of omega-3
        fatty acids and fish oils for cardiovascular disease and diabetes
        treatments)
RN   25525-21-7  CAPLUS
CN   Glucaric acid  (CA INDEX NAME)

Relative stereochemistry.
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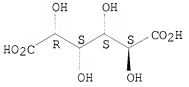


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L7   ANSWER 2 OF 20  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2006:919512  CAPLUS
DOCUMENT NUMBER:          145:320800
TITLE:                    Method for identifying skin care composition
                          -resistant skin-binding peptides
INVENTOR(S):              Wang, Hong; Wu, Ying; O'Brien, John P.
PATENT ASSIGNEE(S):       USA
SOURCE:                   U.S. Pat. Appl. Publ., 27pp.
                          CODEN: USXXCO
```

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060199206	A1	20060907	US 2006-359162	20060222
AU 2006218544	A1	20060908	AU 2006-218544	20060228
CA 2599740	A1	20060908	CA 2006-2599740	20060228
WO 2006094093	A2	20060908	WO 2006-US7362	20060228
WO 2006094093	A3	20080403		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
EP 1856311	A2	20071121	EP 2006-736643	20060228
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JP 2008537479	T	20080918	JP 2007-558195	20060228
IN 2007DN07418	A	20071109	IN 2007-DN7418	20070926
KR 2007112827	A	20071127	KR 2007-722263	20070928
CN 101218356	A	20080709	CN 2006-80014985	20071101
PRIORITY APPLN. INFO.:			US 2005-657494P P	20050301
			WO 2006-US7362 W	20060228

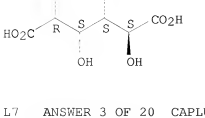
AB A method for identifying skin care composition-resistant skin-binding peptides is described. The skin care composition-resistant skin-binding peptides bind strongly to skin from a skin care composition matrix and are stable therein. Peptide-based skin benefit agents, such as skin conditioners and skin colorants, based on the skin care composition-resistant skin binding peptides are described. The peptide-based skin conditioners and skin colorants consist of skin care composition-resistant skin-binding peptide coupled to a skin conditioning agent or a coloring agent, either directly or through an optional spacer. Skin care and skin coloring product compns. comprising these peptide-based skin conditioners and colorants are also described.

IT 25525-21-7, Glucaric acid
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(identifying skin care composition-resistant skin-binding peptides)

RN 25525-21-7 CAPLUS

CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



L7 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:387818 CAPLUS

DOCUMENT NUMBER: 142:433094
TITLE: Methods and composition for cleaning and passivating fuel cell systems
INVENTOR(S): Yang, Bo; Woyciesjes, Peter M.; Marinho, Filipe J.
PATENT ASSIGNEE(S): Prestone Products Corp., USA
SOURCE: U.S., 10 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6887597	B1	20050503	US 2004-838046	20040503
US 20050245411	A1	20051103	US 2005-89264	20050324
US 7442676	B2	20081028		
WO 2005108644	A2	20051117	WO 2005-US15335	20050503
WO 2005108644	A3	20060309		
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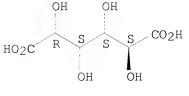
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1761966	A2	20070314	EP 2005-744454	20050503
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1981402	A	20070613	CN 2005-80022215	20050503
JP 2007536707	T	20071213	JP 2007-511503	20050503
PRIORITY APPLN. INFO.:			US 2004-838046 A3	20040503
			WO 2005-US15335 W	20050503

AB A cleaner-passivator composition and method for treating a fuel cell cooling system are described. The cleaner-passivator comprises a complexing agent, a surfactant, a corrosion inhibitor, and a solvent. The cleaner-passivator reduces the contaminants circulating in the fuel cell coolant system that contribute to increasing conductivity in the fuel cell coolant. In addition, the passivator reduces the surface corrosion in the fuel cell system.

IT 25525-21-7, Glucaric acid
RL: TEM (Technical or engineered material use); USES (Uses)
(passivator composition; methods and composition for cleaning and passivating fuel cell systems)

RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:325523 CAPLUS
DOCUMENT NUMBER: 142:372895
TITLE: Low-sugar and low-flour food composition and its manufacture
INVENTOR(S): Slilaty, George E.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 7 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

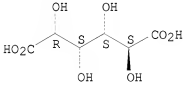
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050079247	A1	20050414	US 2003-683378	20031014

PRIORITY APPLN. INFO.: US 2003-683378 20031014

AB A food composition includes a base that is not primarily of flour and sugar, and a supplement (e.g., vitamins, minerals, amino acids, etc.). Thus, the base may include plant and grain proteins, fiber, carbohydrates, etc. Other base components may include milk (or milk proteins) and egg or egg derivs. The composition is functional as a substitute for traditional flour-and-sugar food products to mimic the organeoleptic properties of such traditional food products to thus provide the consumer with a product that is both tasty and pleasant in smell while simultaneously affording the consumer with a properly nutritious product to meet needed dietary requirements for a healthy lifestyle. Examples include muffins, doughnuts, pastas, pancakes and waffles. A method of making this food composition is also provided.

IT 25525-21-7, Glucaric acid
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(low-sugar and low-flour food composition and its manufacture)
RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



L7 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:794537 CAPLUS
DOCUMENT NUMBER: 141:282419
TITLE: Dyeing composition for keratin fibers comprising a hydroxycarboxylic acid or a salt thereof, ready to use composition comprising the preceding, dyeing process, and kit
INVENTOR(S): Desenne, Patricia; Millequant, Jean-Marie
PATENT ASSIGNEE(S): L'oreal, Fr.
SOURCE: Eur. Pat. Appl., 24 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1462092	A1	20040929	EP 2004-290798	20040325
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
FR 2852832	A1	20041001	FR 2003-50061	20030325
FR 2852832	B1	20080627		
US 20040221401	A1	20041111	US 2004-809019	20040325
US 7267696	B2	20070911		

PRIORITY APPLN. INFO.: FR 2003-50061 A 20030325
US 2003-461302P P 20030408

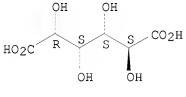
OTHER SOURCE(S): MARPAT 141:282419

AB Hair dye compns. comprising an oxidation base, a direct dye, and a hydroxycarboxylic acid or salts thereof are claimed. A hair dye preparation contained cetylstearyl alc. 13, polyoxyethylene lauryl alc. 8, polyoxyethylene decyl alc. 6, polyoxyethylene oleocetyl alc. 4, lauryl alc. 5, monoethanolamine 2, Mexomere PO 1, glycol distearate 4, silica 2, Carbopol-980 0.6, mucic acid 1, 1,3-dihydroxybenzene 0.67, paraphenylenediamine 0.88, 5-N-(β-hydroxyethyl)amino-2-methyl-phenol 0.055, 2-methyl-1,3-dihydroxybenzene 0.11, para-aminophenol 0.27, 4-(methylamino)phenol hemisulfate 0.26, 1-hydroxy-3-aminobenzene 0.16, perfume q.s., antioxidant q.s., reducing agent q.s., 20% ammonia 11.1, and water q.s. 100%. At the time of use the preparation is mixed with equal amts. of 6% hydrogen peroxide and applied on the hair for 30 min, then rinsed to obtain the selected color.

IT 25525-21-7, Glucaric acid 25525-21-7D, Glucaric acid, salts
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(dyeing composition for keratin fibers comprising hydroxycarboxylic acid or salt thereof)

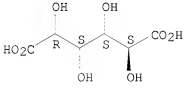
RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



L7 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:794535 CAPLUS
DOCUMENT NUMBER: 141:282417

TITLE: Oxidizing hair composition comprising hydroxycarboxylic acids and their salts as complexing agents

INVENTOR(S): Legrand, Frederic; Millequant, Jean-Marie

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 24 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 1462090	A1	20040929	EP 2004-101242		20040325
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK					
FR 2852834	A1	20041001	FR 2003-50063		20030325
FR 2852834	B1	20080215			
US 20050011017	A1	20050120	US 2004-809564		20040325
PRIORITY APPLN. INFO.:			FR 2003-50063	A	20030325
			US 2003-461984P	P	20030411

OTHER SOURCE(S): MARPAT 141:282417

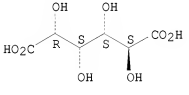
AB Cosmetic compns. containing hydroxycarboxylic acids, e.g. mucic acid, and salts thereof are used as complexing agents for bleaching, dying, or permanently deforming keratin fibers, particularly hair. An oxidising composition for use in hair bleach contained sodium lauryl sulfate 0.5, cetyl alc. 3, polyglycerol oleyl alc. 0.8, simethicone 0.045, gluconic acid 0.1, tetrasodium pyrophosphate tetrahydrate 0.02, sodium stannate 0.04, 50% hydrogen peroxide 12, 85% phosphoric acid soln q.s. pH = 2, and water q.s. 100%.

IT 25525-21-7, Glucaric acid 25525-21-7D, Glucaric acid, salts
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oxidising hair composition comprising hydroxycarboxylic acids and their salts as complexing agents)

RN 25525-21-7 CAPLUS

CN Glucaric acid (CA INDEX NAME)

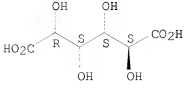
Relative stereochemistry.



RN 25525-21-7 CAPLUS

CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



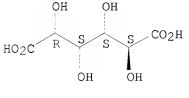
L7 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1994:603656 CAPLUS
DOCUMENT NUMBER: 121:203656
ORIGINAL REFERENCE NO.: 121:37083a,37086a
TITLE: Optimization of the simultaneous determination of acids and sugars as their trimethylsilyl(oxime) derivatives by gas chromatography-mass spectrometry and determination of the composition of six apple varieties
AUTHOR(S): Tisza, Sandor; Sass, Pal; Molnar-Perl, Ibolya
CORPORATE SOURCE: Institute of Inorganic and Analytical Chemistry, L. Eotvos University, Budapest, H-1518, Hung.
SOURCE: Journal of Chromatography, A (1994), 676(2), 461-8
CODEN: JCRAEY; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A GC-MS method is reported for establishing the reproducibility of the determination of widely different amts. of sugars and acids as their trimethylsilyl derivs. simultaneously, from one solution with one injection. Optimum conditions were achieved on a 30-m DB-5 column. The determination of the components was based on their TIC and on selected ion monitoring. Data furnished by a Varian Saturn II GC-MS system equipped with a Varian Model 8200 AutoSampler showed that 4-20 ng of the minor constituents, in the presence of 50-250 ng of the main components, could be determined with a relative standard deviation of 10.6% or less. The utility of the procedure was demonstrated by the anal. of the composition of six different apple varieties, gathered at three different times of ripeness, in two consecutive years (1991, 1992), and stored for various periods of time. The separated carboxylic acids and sugars were phosphoric, succinic, pyruvic, 5-hydroxy-N-valeric and malic acid, butanal, 3-methyl-2-hydroxy-2-butenoic acid, 1,2-hydroxycyclohexene, pimelic acid, 2-deoxy-D-erythrose, tartaric acid, xylitol, arabinose, caffeic acid, D-ribose, citric acid, rhamnose, quinic acid D-erythro-tetrafuranose, talose, 2-ketogluconic acid, mannitol, sorbitol, fructose, galactose, glucose, fructose (open form), glucaric and galacturonic acid, lactose, meso-inositol, gluconic, linoleic, glucuronic, stearic and arachidic acid, sucrose, turanose, maltose, chlorogenic acid, β-sitosterol, raffinose and maltotriose.

IT 25525-21-7, Glucaric acid
RL: ANT (Analyte); BOC (Biological occurrence); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence)
(carboxylic acids and sugars determination in apples by gas chromatog.-mass spectrometry of trimethylsilyl(oxime) derivs.)

RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



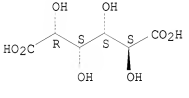
L7 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1993:600321 CAPLUS
DOCUMENT NUMBER: 119:200321
ORIGINAL REFERENCE NO.: 119:35641a,35644a
TITLE: Measurement and its fluctuation of urinary glucaric

acid in newborns
AUTHOR(S): Okuyama, Teruaki; Mizumoto, Yoshifumi; Endo, Ryoichi; Hiramatsu, Hisakazu; Horie, Minoru; Saeki, Hikaru; Abe, Masao
CORPORATE SOURCE: Tokyo Metrop. Tsukiji Matern. Hosp., Tokyo, Japan
SOURCE: Nippon Sanka Fujinka Gakkai Zasshi (1993), 45(7), 629-35
CODEN: NISFAY; ISSN: 0300-9165
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB It is known that urinary excretion of glucaric acid (GA) is an indirect index of hepatic P 450 microenzyme induction. The authors measured and analyzed urinary excretion of GA in newborns and mothers by a new method for the inhibition of β-glucuronidase activity and obtained the following results. The concentration of urinary GA was correlated with that of urinary creatinine and total bilirubin in newborns. There were no significant correlations between gestational age, sex, body weight at birth, placental weight, and the urinary GA concentration The urinary excretion of GA in newborns was decreased in the 1st few days after birth, but a transitional increase was observed on the 5th day after birth. The concentration of urinary GA was correlated with that of direct bilirubin in serum on the 5th day after birth. There was a neg. correlation between the urinary GA concentration on the 1st day after birth and that of direct bilirubin in serum on the 5th day after birth. These results suggested that hepatic P 450 microsomal enzyme was induced by bilirubin in newborns and it was possible to estimate the clin. course of jaundice by measuring the urinary excretion of GA.

IT 25525-21-7, Glucaric acid
RL: BIOL (Biological study)
(of urine, of human newborn, bilirubin in relation to)
RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



L7 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1990:457640 CAPLUS
DOCUMENT NUMBER: 113:57640
ORIGINAL REFERENCE NO.: 113:9753a,9756a
TITLE: Effect of calcium glucarate on β-glucuronidase activity and glucarate content of certain vegetables and fruits
AUTHOR(S): Dwivedi, Chandradhar; Heck, Wendy J.; Downie, Alan A.; Larroya, Saroj; Webb, Thomas E.
CORPORATE SOURCE: Coll. Pharm., South Dakota State Univ., Brookings, SD, 57007, USA
SOURCE: Biochemical Medicine and Metabolic Biology (1990), 43(2), 83-92
CODEN: BMMBES; ISSN: 0885-4505
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Glucarate is normally present in tissues and body fluids and is in equilibrium

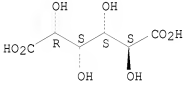
with D-glucaro-1,4-lactone, a natural inhibitor of β-glucuronidase activity. Dietary Ca glucarate (CaG), a sustained-release form of glucarate, elevates the blood level of D-glucaro-1,4-lactone, which suppresses blood and tissue β-glucuronidase activity. A single dose of CaG (4.5 mmol/kg body weight) inhibited β-glucuronidase activity in serum and liver, lung, and intestinal microsomes by 57, 44, 37, and 39%, resp. A chronic administration of CaG (4% of diet) also decreased β-glucuronidase activity in intestinal and liver monosomes. Maximal inhibition of β-glucuronidase activity in serum was observed from 12 noon to 2:00 p.m. In contrast, maximum inhibition of β-glucuronidase activity in intestinal and liver microsomes occurred during mornings, although a secondary depression in intestinal microsomes also occurred around 4 p.m. A 4% CaG-supplemented diet also inhibited β-glucuronidase activity (by 70% and 54%) of the bacterial flora obtained from proximal (small intestine) and distal (colon) segments of the intestine, resp. Due to the potential effect of dietary glucarate on net glucuronidation and on other metabolic pathways, glucaric acid levels in various foods were determined

IT 25525-21-7, Glucaric acid
RL: BIOL (Biological study)
(of vegetables and fruits)

RN 25525-21-7 CAPLUS

CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



L7 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:66672 CAPLUS

DOCUMENT NUMBER: 104:66672

ORIGINAL REFERENCE NO.: 104:10641a,10644a

TITLE: The relationship between hepatic microsomal biphenyl 2-hydroxylase, 4-hydroxylase and urinary glucaric acid excretion in the rat

AUTHOR(S): Kinoshita, Haruki; Tanaka, E.; Yoshida, T.; Kuroiwa, Y.

CORPORATE SOURCE: Res. Lab., Chigai Pharm. Co. Ltd., Tokyo, 176, Japan

SOURCE: European Journal of Drug Metabolism and Pharmacokinetics (1985), 10(3), 247-51
CODEN: EJDPD2; ISSN: 0398-7639

DOCUMENT TYPE: Journal

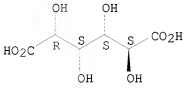
LANGUAGE: English

AB Treatment of rats with phenobarbital (PB) increased microsomal biphenyl 4-hydroxylase activity and urinary glucaric acid excretion. Hepatic microsomal biphenyl 4-hydroxylase activity was correlated with urinary glucaric excretion in PB-treated rats. Hepatic microsomal biphenyl 2-hydroxylase activity was not correlated with urinary glucaric excretion in PB, 3-methylcholanthrene, and β-naphthoflavone-treated rats. Pretreatment of rats with CCl_4 decreased urinary glucaric acid excretion and biphenyl 2- and 4-hydroxylase activities. On the other hand, pretreatment with $CaCl_2$ decreased these enzyme activities, but not urinary glucaric acid excretion. The urinary glucaric acid level may not always provide an index for assessment of hepatic drug-metabolizing enzyme activity.

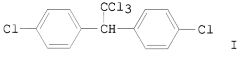
IT 25525-21-7

RL: BIOL (Biological study)
(of urine, biphenyl hydroxylases of liver microsome in relation to)
RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.

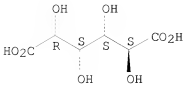


L7 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1983:102318 CAPLUS
DOCUMENT NUMBER: 98:102318
ORIGINAL REFERENCE NO.: 98:15521a,15524a
TITLE: Effect of some xenobiotics on the activities of enzymes relating to the glucuronic acid pathway and on the ascorbic acid metabolism in guinea pigs
AUTHOR(S): Horio, Fumihiko; Kimura, Mayumi; Yoshida, Akira
CORPORATE SOURCE: Dep. Agric. Chem., Nagoya Univ., Nagoya, 464, Japan
SOURCE: Agricultural and Biological Chemistry (1982), 46(12), 3101-103
CODEN: ABCHA6; ISSN: 0002-1369
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

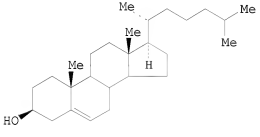


AB The administration of PCB significantly reduced the body weight gain for 14 days, with DDT (I) [50-29-3] and aminopyrine [58-15-1] showing no effect. Urinary excretion of glucaric acid [25525-21-7] was also remarkably increased with the PCB diet. Ingestion of PCB increased the activities of UDP-glucose dehydrogenase [9028-26-6], UDP-glucuronyl transferase [9030-08-4], β-glucuronidase [9001-45-0], and UDP-glucuronic acid pyrophosphatase [52227-94-8]. However, the other xenobiotics did not cause any significant change in any enzyme activity. Urinary excretion of ascorbic acid [50-81-7] was reduced by feeding the PCB diet. In the DDT group, there was no change in the urinary compound
IT 25525-21-7
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(metabolism of, xenobiotics effect on)
RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



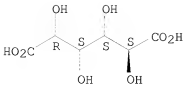
L7 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1982:418589 CAPLUS
DOCUMENT NUMBER: 97:18589
ORIGINAL REFERENCE NO.: 97:3217a,3220a
TITLE: Effect of dietary level of sulfur-containing amino acids on liver drug-metabolizing enzymes, serum cholesterol and urinary ascorbic acid in rats fed PCB
AUTHOR(S): Kato, Norihisa; Mochizuki, Satoshi; Kawai, Kyoko; Yoshida, Akira
CORPORATE SOURCE: Dep. Agric. Chem., Nagoya Univ., Nagoya, 464, Japan
SOURCE: Journal of Nutrition (1982), 112(5), 848-54
CODEN: JONUAI; ISSN: 0022-3166
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



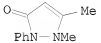
I

AB Maximum gain in body weight in rats was observed with 0.5% S-containing amino acids (S-AA) diets with or without PCB (300 ppm) addition Metabolic parameters increased by PCB were liver weight, activities of hepatic aminopyrine N-demethylase [9037-69-8] and aniline hydroxylase [9012-80-0], serum total cholesterol (I) [57-88-5], serum high-d. lipoprotein I, serum corticosterone [50-22-6] and urinary metabolites of the glucuronic acid pathway including ascorbic acid [50-81-7], glucuronic acid [6556-12-3] and glucaric acid [25525-21-7]. In the PCB-treated animals, maximum values of liver weight, aminopyrine demethylase activity, serum I, serum corticosterone, urinary ascorbic acid and glucaric acid were obtained with .apprx.0.8% S-AA. For the maximum induction of these metabolic responses, 0.5% S-AA was not enough. Urinary glucuronic acid and the ratio of lower d. lipoprotein I vs. high-d. lipoprotein I were decreased with a supplement of S-AA to PCB-containing diets.
IT 25525-21-7
RL: BIOL (Biological study)
(of urine, PCB effect on, sulfur-containing amino acids in relation to)
RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



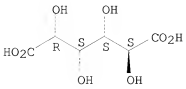
L7 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1980:437591 CAPLUS
DOCUMENT NUMBER: 93:37591
ORIGINAL REFERENCE NO.: 93:6101a,6104a
TITLE: Measurement of hepatic drug-metabolizing enzyme activity in man. Comparison of three different assays
AUTHOR(S): Sotaniemi, Eero A.; Pelkonen, R. O.; Puukka, M.
CORPORATE SOURCE: Dep. Intern. Med. Pharmacol., Univ. Oulu, Oulu, Finland
SOURCE: European Journal of Clinical Pharmacology (1980), 17(4), 267-74
CODEN: EJCPAS; ISSN: 0031-6970
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



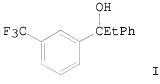
I

AB Three parameters of hepatic drug metabolism, cytochrome P-450 [9035-51-2] content, antipyrine (I) [60-80-0] metabolism, and urinary excretion of glucaric acid (GA) [25525-21-7], were investigated in patients who underwent diagnostic liver needle biopsy. P-450 and I metabolism, but not GA, were related to histol. changes in the liver. All the parameters were increased in subjects treated with enzyme-inducing drugs, the extent of induction being related to alterations in liver histol. The largest responses were seen in subjects with an intact liver and the smallest in those with hepatitis or cirrhosis. Therapy with inducers partly compensated for the impairment in drug metabolism caused by disease; thus, some patients with altered liver had normal values in the tests if they had been treated with inducers.
IT 25525-21-7
RL: BIOL (Biological study)
(of urine, drugs and liver disease effect on, drug-metabolizing enzymes of liver in relation to)
RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



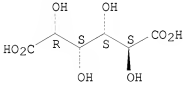
L7 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1978:453507 CAPLUS
DOCUMENT NUMBER: 89:53507
ORIGINAL REFERENCE NO.: 89:8251a,8254a
TITLE: 3-Trifluoromethyl-α-ethylbenzhydrol (RGH-3332). Liver enzyme induction and D-glucaric acid excretion
AUTHOR(S): Varadi, A.
CORPORATE SOURCE: 1st Dep. Med., Semmelweis Univ. Med. Sch., Budapest, Hung.
SOURCE: Arzneimittel-Forschung (1978), 28(4), 678-9
CODEN: ARZNAD; ISSN: 0004-4172
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB RGH-3332 (I) [56430-99-0] (300-900 mg/day, orally for 10 days) given to patients increased glucaric acid [25525-21-7] excretion in a dose-dependent manner, suggesting that I induced drug-metabolizing enzymes. No adverse effects were observed
IT 25525-21-7
RL: PROC (Process)
(of urine, trifluoromethylethylbenzhydrol increase of, drug-metabolizing enzyme induction in relation to)
RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



L7 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1978:430802 CAPLUS
DOCUMENT NUMBER: 89:30802
ORIGINAL REFERENCE NO.: 89:4683a,4686a
TITLE: Composition with pharmaceutical and/or antimicrobial activity, containing glucaric acid or its derivatives
INVENTOR(S): Koehler, Valentin; Koehler, Julian
PATENT ASSIGNEE(S): Fed. Rep. Ger.
SOURCE: Ger. Offen., 13 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 2651947	A1	19780518	DE 1976-2651947		19761113
DE 2727799	A1	19790104	DE 1977-2727799		19770621
FR 2370471	A1	19780609	FR 1977-34050		19771110
NL 7712421	A	19780517	NL 1977-12421		19771111
JP 53104736	A	19780912	JP 1977-135777		19771114
PRIORITY APPLN. INFO.:			DE 1976-2651947	A	19761113
			DE 1977-2727799	A	19770621

OTHER SOURCE(S): MARPAT 89:30802

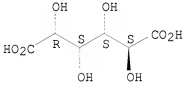
AB Pharmacol. and bactericidal compns. contain glucaric acid, its salts, esters, amides, or lactone. The compds. have bactericidal, and fungicidal activity for all types of applications, and antiinflammatory activity (no data).

IT 25525-21-7D, derivs.
RL: BIOL (Biological study)
(for pharmaceuticals)

RN 25525-21-7 CAPLUS

CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



L7 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1977:594101 CAPLUS

DOCUMENT NUMBER: 87:194101

ORIGINAL REFERENCE NO.: 87:30619a,30622a

TITLE: Excretion of D-glucaric acid and metabolism of salicylamide in man: the effect of phenobarbital-produced enzymic induction

AUTHOR(S): Drzewiecki, Janusz

CORPORATE SOURCE: Inst. Intern. Dis., Silesian Med. Acad., Katowice, Pol.

SOURCE: Polish Journal of Pharmacology and Pharmacy (1977), 29(4), 359-66
CODEN: PJPPAA; ISSN: 0301-0244

DOCUMENT TYPE: Journal

LANGUAGE: English

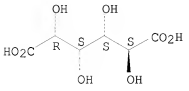
AB In 16 young healthy subjects the composition of salicylamide [65-45-2] metabolites and the rate of their excretion depended on the loading dose. After 5 days of treatment with phenobarbital [50-06-6] the excretion of glucaric acid (GLA) [25525-21-7] and the rate of excretion and degree of glucuronidization of salicylamide metabolites increased over 2-fold. The rate of excretion and degree of glucuronidization were correlated with the amount of excreted GLA. The value of assay of GLA for the assessment of induction of hepatocytic microsomal enzymes is discussed.

IT 25525-21-7
RL: BIOL (Biological study)
(of urine, pharmaceutical metabolism by liver enzymes induction by phenobarbital determination in relation to)

RN 25525-21-7 CAPLUS

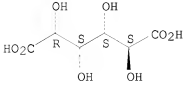
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



L7 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1977:496157 CAPLUS
DOCUMENT NUMBER: 87:96157
ORIGINAL REFERENCE NO.: 87:15212h,15213a
TITLE: Hepatic microsomal enzyme induction and its evaluation in a clinical laboratory
AUTHOR(S): Herzberg, M.; Fishel, B.; Wiener, M. H.
CORPORATE SOURCE: Sackler Sch. Med., Tel Aviv Univ., Tel Aviv, Israel
SOURCE: Israel Journal of Medical Sciences (1977), 13(5), 471-6
CODEN: IJMDAI; ISSN: 0021-2180
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Whether short-term treatment with α-methyldopa [555-30-6], quinidine (I) [56-54-2], digoxin [20830-75-5], diazepam (II) [439-14-5] or furosemide [54-31-9] was capable of stimulating the activity of hepatic microsomal drug-metabolizing enzymes was determined Glucaric acid (GA) [25525-21-7] excretion and serum activity of γ-glutamyl transpeptidase (GGT) [9046-27-9] were used as indicators of hepatic microsomal enzyme activity. Increased GA excretion was found in 45% and increased serum GGT activity in 40% of the patients on drug treatment. Only 14.3% showed an increase in both indicators. The excretion of GA rose in patients who received drugs for more than 10 days, as compared with those who received drugs for less than 10 days, whereas the percentage of high GGT values did not rise with increased duration of treatment. The lack of correlation between serum GGT activity and GA excretion renders the value of GGT doubtful as a consistent indicator of microsomal enzyme induction. GA excretion, on the other hand, seems to be a dependable index of microsomal enzyme induction in response to short-term treatment with standard doses of several widely used drugs.
IT 25525-21-7
RL: BIOL (Biological study)
(of urine, in evaluation of hepatic microsomal enzyme induction by drugs)
RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



L7 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1976:571923 CAPLUS

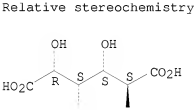
DOCUMENT NUMBER: 85:171923
ORIGINAL REFERENCE NO.: 85:27421a,27424a
TITLE: Serum gamma-glutamyl transpeptidase activity and urinary D-glucaric acid excretion in newborns in the first week of life. Effects of phenobarbital and nicethamide combination
AUTHOR(S): Talafant, E.; Hoskova, A.; Pojerova, A.
CORPORATE SOURCE: First Paediatr. Clin., J. E. Purkyne Univ., Brno, Czech.
SOURCE: Acta Paediatrica Scandinavica (1976), 65(6), 685-8 CODEN: APSVAM; ISSN: 0001-656X
DOCUMENT TYPE: Journal
LANGUAGE: English

AB In newborns treated for 3 days following birth with a combination of phenobarbital [50-06-6] and nicethamide [59-26-7] an increase of γ-glutamyl transpeptidase [9046-27-9] activity occurred from the 4th to the 7th days. The 7th day levels were significantly higher when compared with the controls. Simultaneous determination of urinary glucaric acid [25525-21-7] excretion confirmed the induction of hepatic microsomal enzymes of the glucuronic acid pathway. This could also be demonstrated by a pronounced decrease of serum billirubin levels in groups receiving the enzyme inducers whether phenobarbital was administered i.m. or orally as the sodium salt [57-30-7].

IT 25525-21-7
RL: BIOL (Biological study)
(of urine, nicethamide and phenobarbital effect on, in newborn)

RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



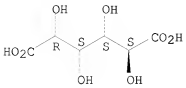
L7 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1963:456011 CAPLUS
DOCUMENT NUMBER: 59:56011
ORIGINAL REFERENCE NO.: 59:10335g-h
TITLE: The mechanism of oxidation of cellulose by atmospheric oxygen in alkaline medium. The chemical composition of the oxidation products
AUTHOR(S): Mayat, N. S.; Golova, O. P.; Nikolaeva, I. I.
SOURCE: Vysokomolekulyarnye Soedineniya (1963), 5(6), 873-4 CODEN: VMSDA8; ISSN: 0042-9368
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB The composition of soluble products from alkaline-oxidation of regenerated cellulose was determined by paper chromatography. In 1% NaOH at 100°, 20% of the initial material was dissolved in 5 hrs. With BuOH-pyridine-water, $AgNO_3$, and the universal indicator, the presence of trioses, tetroses, and pentaoses was disclosed as well as low-mol.weight neutral substances. With AcOEt-AcOH-water, saccharic acids and their lactones were found in the soluble products.

IT 25525-21-7, Glucaric acid
(from cellulose oxidation)

RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



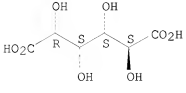
L7 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1963:434102 CAPLUS
DOCUMENT NUMBER: 59:34102
ORIGINAL REFERENCE NO.: 59:6075f-g
TITLE: Composition for removal of heat scale and carbon deposits
INVENTOR(S): Arden, Benjamin
PATENT ASSIGNEE(S): Purex Corp., Ltd.
SOURCE: 5 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3095380		19630625	US 1958-748183	19580714
PRIORITY APPLN. INFO.:			US	19580714

AB Continuation-in-part of U.S. 2,992,995 (CA 55, 24505a), U.S. 2,843,509 (CA 53, 9526g), and U.S. 2,992,997 (CA 55, 23886b) A solution containing an alkanolamine which removes leaded deposits, removes C deposits, and removes heat scale is described. The aqueous alkali solution contains an alkali metal compound which in solution gives free hydroxide. A polyalkanolpolyamine is included as a salt to act in conjunction with the alkali to convert the oxide deposits to a highly soluble form. These salts are derived from an aliphatic hydroxy acid such as lactic, citric, tartaric, gluconic, glyceric, malic, and saccharic acids. Evaporation is kept to a min. by using an organic solvent having a low vapor pressure in conjunction with water. Phenols in the form of alkali metal phenates are added to the solution to aid in C removal.

IT 25525-21-7, Glucaric acid
(salts, mixture with alkanolamines as cleaning composition for metals)
RN 25525-21-7 CAPLUS
CN Glucaric acid (CA INDEX NAME)

Relative stereochemistry.



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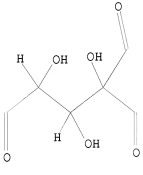

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SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          7746 TO    10294
PROJECTED ANSWERS:                0 TO        0

L9            0 SEA SSS SAM L8

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CA SUBSCRIBER PRICE                                   0.00     -16.00

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FILE COVERS 1907 - 12 Dec 2008  VOL 149 ISS 25
FILE LAST UPDATED: 11 Dec 2008  (20081211/ED)

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reclassification data for the third quarter of 2008.

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=> s l10
L11           2 L10

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YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):y

L11  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2008 ACS on STN
AN   2004:218548  CAPLUS
```

DN 140:277695
TI Process for preparation of a polycarboxylic composition comprising an electrochemical oxidation stage of a monosaccharide composition
IN Marsais, Francis; Feasson, Christian; Queguiner, Guy; Ibert, Mathias; Comini, Serge; Grossel, Jean Marc
PA Roquette Freres, Fr.
SO Fr. Demande, 31 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2844525	A1	20040319	FR 2002-11546	20020918
	FR 2844525	B1	20050603		
	WO 2004027118	A1	20040401	WO 2003-FR2702	20030912
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	EP 1540038	A1	20050615	EP 2003-797338	20030912
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	US 20050252785	A1	20051117	US 2005-528356	20050318
PRAI	FR 2002-11546	A	20020918		
	WO 2003-FR2702	W	20030912		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1996:20665 CAPLUS
DN 124:202745
OREF 124:37493a,37496a
TI Sonolysis and radiolysis of glyceraldehyde in de-aerated aqueous solution
AU Fuchs, Eva; Heusinger, Helmut
CS Institut Radiochemie, Technischen Universitaet Muenchen, Garching, D-85747, Germany
SO Ultrasonics Sonochemistry (1995), 2(2), S105-S109
CODEN: ULSOER; ISSN: 1350-4177
PB Elsevier
DT Journal
LA English

=> d l11 ibib abs hitstr 1-
YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):y

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:218548 CAPLUS
DOCUMENT NUMBER: 140:277695
TITLE: Process for preparation of a polycarboxylic composition comprising an electrochemical oxidation stage of a monosaccharide composition
INVENTOR(S): Marsais, Francis; Feasson, Christian; Queguiner, Guy; Ibert, Mathias; Comini, Serge; Grossel, Jean Marc
PATENT ASSIGNEE(S): Roquette Freres, Fr.

SOURCE: Fr. Demande, 31 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2844525	A1	20040319	FR 2002-11546	20020918
FR 2844525	B1	20050603		
WO 2004027118	A1	20040401	WO 2003-FR2702	20030912
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003276334	A1	20040408	AU 2003-276334	20030912
EP 1540038	A1	20050615	EP 2003-797338	20030912
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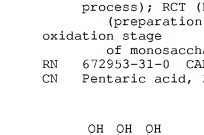
US 20050252785	A1	20051117	US 2005-528356	20050318

PRIORITY APPLN. INFO.: FR 2002-11546 A 20020918
WO 2003-FR2702 W 20030912

AB The aim of present invention is a method of preparation of polycarboxylic composition, by electrochem. oxidation of monosaccharide carried out in absence of sodium hypochlorite and in presence of an oxide of amine and using an anode based on carbonaceous material. The aforementioned anode is selected in the group including carbon felts and the activated granulated carbon. The electrochem. oxidation can advantageously be led to pH ranging between 10 and 14.

IT 672953-31-0
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(preparation of polycarboxylic composition comprising electrochem. oxidation stage of monosaccharide composition)

RN 672953-31-0 CAPLUS
CN Pentaric acid, 2-C-carboxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1996:20665 CAPLUS
DOCUMENT NUMBER: 124:202745
ORIGINAL REFERENCE NO.: 124:37493a,37496a
TITLE: Sonolysis and radiolysis of glyceraldehyde in de-aerated aqueous solution

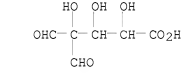
AUTHOR(S): Fuchs, Eva; Heusinger, Helmut
CORPORATE SOURCE: Institut Radiochemie, Technischen Universitaet Muenchen, Garching, D-85747, Germany
SOURCE: Ultrasonics Sonochemistry (1995), 2(2), S105-S109
CODEN: ULSOER; ISSN: 1350-4177
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The objective of this work was to contribute to the mechanism of the sonolytic and radiolytic reactions leading in deaerated aqueous solns. of sugars to products by radical-radical combination. For this purpose glyceraldehyde, the first homolog of the series of aldoses, was investigated. Primary glyceraldehyde radicals are produced by abstraction of carbon-bonded hydrogen atoms by sonolytic or radiolytic H and OH radicals. Secondary glyceraldehyde radicals are derived from primary radicals by elimination of water. Both kinds of radicals were found to participate in dimer production

IT 174078-68-3
RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
(sonolysis and radiolysis of glyceraldehyde in deaerated aqueous solution)

RN 174078-68-3 CAPLUS

CN Penturonic acid, 2-C-formyl- (9CI) (CA INDEX NAME)



=> FIL CAPLUS

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.60	-17.60

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FILE COVERS 1907 - 12 Dec 2008 VOL 149 ISS 25
FILE LAST UPDATED: 11 Dec 2008 (20081211/ED)

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E3          97 --> MARSAIS FRANCIS/AU
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E7           2     MARSAIS PAUL/AU
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E9           1     MARSAK JAN/AU
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E12          2     MARSAK Z/AU
E13          5     MARSAK ZLATEK/AU
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E15          1     MARSAKOV G P/AU
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E20        102     MARSAL A/AU
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E24          1     MARSAL ALONSO CARLOS/AU
E25          1     MARSAL ANDREU/AU

=> S (E3)
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E7           4     FEAST ALAN A J/AU
E8           2     FEAST ALAN ARTHUR JOHN/AU
E9           1     FEAST ALAN J/AU
E10          1     FEAST E C/AU
E11          1     FEAST GEORGE C/AU
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E13          1     FEAST JIM/AU
E14          2     FEAST M/AU
E15          1     FEAST M M/AU
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E22          1     FEAST NICHOLAS A/AU
E23          4     FEAST S/AU
E24         11     FEAST SASKIA/AU
E25          4     FEAST TIMOTHY PAUL/AU
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=> S (E2 OR E3)
             2 "FEASSON C"/AU
            19 "FEASSON CHRISTIAN"/AU
L13         21 ("FEASSON C"/AU OR "FEASSON CHRISTIAN"/AU)

=> E QUEGUINER GUY/AU 25
E1           1     QUEGUINER FRANCOIS/AU
E2         113     QUEGUINER G/AU
E3         222 --> QUEGUINER GUY/AU
E4           2     QUEGUINER I/AU
E5           4     QUEGUINER ISABELLE/AU
E6           1     QUEGUINER J M/AU
E7           4     QUEGUINER LAURENCE/AU
E8           1     QUEGUINER S/AU
E9           9     QUEHEILLALT D T/AU
E10          1     QUEHEILLALT DOUGLAS/AU
E11         18     QUEHEILLALT DOUGLAS T/AU
E12          1     QUEHEILLALT DOUGLAS TED/AU
E13          1     QUEHEN CINDY/AU
E14          2     QUEHEN JACQUES/AU
E15          1     QUEHEN LOIC/AU
E16          2     QUEHEN M/AU
E17          2     QUEHEN S/AU
E18          1     QUEHEN SABINE/AU
E19          9     QUEHENBERGER F/AU
E20         12     QUEHENBERGER FRANZ/AU
E21          1     QUEHENBERGER H/AU
E22          6     QUEHENBERGER O/AU
E23         48     QUEHENBERGER OSWALD/AU
E24         23     QUEHENBERGER P/AU
E25         49     QUEHENBERGER PETER/AU

=> S (E2 OR E3)
           113 "QUEGUINER G"/AU
           222 "QUEGUINER GUY"/AU
L14        335 ("QUEGUINER G"/AU OR "QUEGUINER GUY"/AU)

=> E IBERT MATHIAS/AU 25
E1           1     IBERT EDWARD ROBERT/AU
E2           1     IBERT J/AU
E3           5 --> IBERT MATHIAS/AU
E4           1     IBERTI U/AU
E5           3     IBERTI UBERTO/AU
E6           1     IBERTIS ACUNA MARIA S/AU
E7           1     IBERTIS ACUNA MARIA SOFIA/AU
E8           1     IBERTIS ACUNA MARIA TERESA/AU
E9           1     IBES B V/AU
E10          1     IBES JUNG M/AU
E11          1     IBES W/AU
E12          1     IBES WILHELMUS JOHANNES MARIA/AU
E13          1     IBES WIM J M/AU
E14          1     IBETTSON J/AU
E15          4     IBEWIRO B/AU
E16          1     IBEWIRO E B/AU
E17          1     IBEWUIKE J C/AU
E18          2     IBEWUIKE JOSEPH C/AU
E19          1     IBEWUILKE J C/AU
E20          1     IBEY B L/AU
E21          1     IBEY BENNETT/AU
E22         15     IBEY BENNETT L/AU
E23          1     IBEY BENNETT LUKE/AU
E24          1     IBEY REBECCA E M/AU
E25          1     IBEZIAKO CH/AU
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=> S (E3)
L15          5 ("IBERT MATHIAS"/AU)

=> E COMINI SERGE/AU 25
E1           1     COMINI ROBERTO/AU
E2           6     COMINI S/AU
E3           7 --> COMINI SERGE/AU
E4           1     COMINI SILVIA/AU
E5           1     COMINI T/AU
E6           7     COMINO A/AU
E7           2     COMINO A M/AU
E8           7     COMINO ALBERTO/AU
E9          10     COMINO ALEKSANDRA/AU
E10          2     COMINO ALESSIA/AU
E11          1     COMINO ALMENARA PABLO IGNACIO/AU
E12          4     COMINO C/AU
E13          1     COMINO CARLO/AU
E14          7     COMINO CINZIA/AU
E15          3     COMINO DELGADO R/AU
E16          6     COMINO DELGADO RAFAEL/AU
E17          2     COMINO E/AU
E18          1     COMINO EDMONDO/AU
E19          1     COMINO ELENA/AU
E20          2     COMINO EVA/AU
E21          3     COMINO G/AU
E22          8     COMINO GIOVANNI/AU
E23          2     COMINO ILARIA/AU
E24          1     COMINO ISABEL/AU
E25          1     COMINO M L/AU

=> S (E2 OR E3)
             6 "COMINI S"/AU
             7 "COMINI SERGE"/AU
L16         13 ("COMINI S"/AU OR "COMINI SERGE"/AU)

=> E GROSSEL JEAN MARC/AU 25
E1           1     GROSSEL HUBERT/AU
E2           1     GROSSEL J M/AU
E3           1 --> GROSSEL JEAN MARC/AU
E4          18     GROSSEL M C/AU
E5           3     GROSSEL MARTHA/AU
E6          13     GROSSEL MARTHA J/AU
E7          64     GROSSEL MARTIN C/AU
E8           4     GROSSEL MARTIN CHRISTOPHER/AU
E9           9     GROSSEL P/AU
E10          6     GROSSEL PH/AU
E11         15     GROSSEL PHILIPPE/AU
E12          4     GROSSEL S S/AU
E13          3     GROSSEL STANLEY/AU
E14         45     GROSSEL STANLEY S/AU
E15          1     GROSSEL STANLY S/AU
E16          2     GROSSELCK J/AU
E17          1     GROSSELE BARBARA/AU
E18          1     GROSSELEIL JACQUES/AU
E19          1     GROSSELET OLIVIER/AU
E20          1     GROSSELFINGER F B/AU
E21          5     GROSSELFINGER FREDERICK B/AU
E22          1     GROSSELFINGER H/AU
E23          2     GROSSELFINGER HORST/AU
E24          1     GROSSELFINGER J/AU
E25          1     GROSSELFINGER KEVIN/AU
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=> S (E2 OR E3)
             1 "GROSSEL J M"/AU
             1 "GROSSEL JEAN MARC"/AU
L17          2 ("GROSSEL J M"/AU OR "GROSSEL JEAN MARC"/AU)

=> s l12 or l13 or l14 or l15 or l16 or l17
L18        416 L12 OR L13 OR L14 OR L15 OR L16 OR L17

=> s l18 and polycarboxylic
         13917 POLYCARBOXYLIC
L19          1 L18 AND POLYCARBOXYLIC

=> d l19

L19  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2008 ACS on STN
AN   2004:218548  CAPLUS
DN   140:277695
TI   Process for preparation of a polycarboxylic composition
     comprising an electrochemical oxidation stage of a monosaccharide
     composition
IN   Marsais, Francis; Feasson, Christian; Queguiner,
     Guy; Ibert, Mathias; Comini, Serge; Grossel,
     Jean Marc
PA   Roquette Freres, Fr.
SO   Fr. Demande, 31 pp.
     CODEN: FRXXBL
DT   Patent
LA   French
FAN.CNT 1
     PATENT NO.          KIND   DATE       APPLICATION NO.         DATE
     --------------      ----   --------   --------------------    --------
PI   FR 2844525          A1     20040319   FR 2002-11546           20020918
     FR 2844525          B1     20050603
     WO 2004027118       A1     20040401   WO 2003-FR2702          20030912
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
             GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
             LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
             OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
             TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     AU 2003276334       A1     20040408   AU 2003-276334          20030912
     EP 1540038          A1     20050615   EP 2003-797338          20030912
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     US 20050252785      A1     20051117   US 2005-528356          20050318
PRAI FR 2002-11546       A      20020918
     WO 2003-FR2702      W      20030912
RE.CNT  3     THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
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